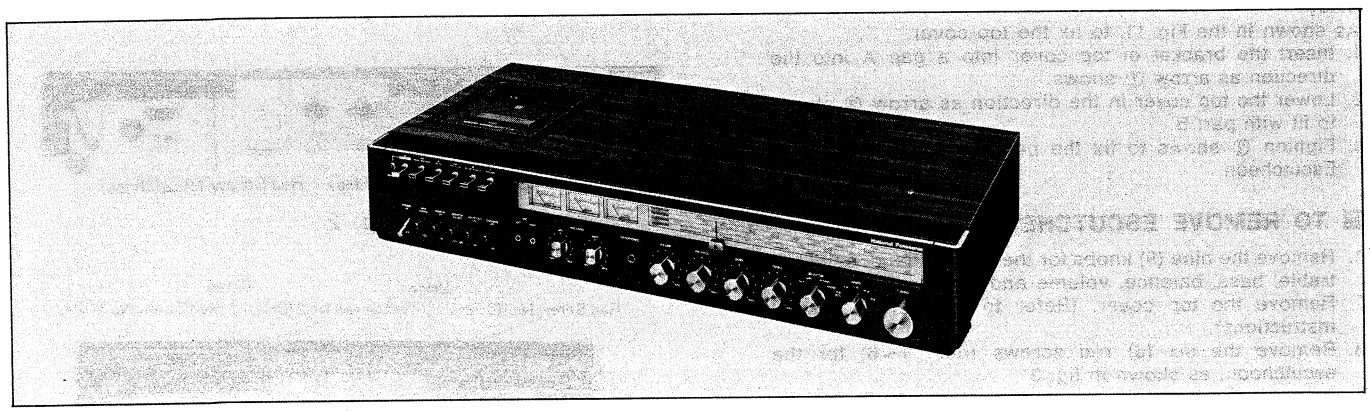
ORDER NO. RD7604-1288

Service Manual

Radio

FM-AM 4-BAND STEREO TABLE RADIO WITH CASSETTE TAPE RECORDER

RE-7860LBS



■ SPECIFICATIONS

AM TUNER SECTION

Frequency Range:	LW 145~285 kHz (2060~1060m) MW 520~1610 kHz (577~186m) SW 5.9~18 MHz (50.8~16.7m)
Intermediate Frequency (I.F.):	455 kHz
Sensitivity:	LW 100μV/m for 50mW (220 kHz) MW 40μV/m for 50mW (1 MHz) SW 3μV for 50mW (12 MHz)
Image Ratio:	LW 50 dB (220 kHz) MW 43 dB (1 MHz) SW 10 dB (12 MHz)
Selectivity:	38 dB (±10 kHz) (1 MHz)

TAPE DECK SECTION

Deck System:	Auto Stop and Memory Rewind Cassette System
Track System:	4-Track, 2-Channel
Recording System:	AC Bias, 50 kHz
Erasing System:	AC Erase, 50 kHz
Tape Speed:	4.75cm/sec. (1-$\frac{7}{8}$ i.p.s.)
Frequency Response:	20 Hz~13 kHz (Normal) 20 Hz~15 Hz kHz (CrO_2)
Signal to Noise Ratio:	55 dB (DIN)
Wow & Flutter:	0.2% (DIN 45511)
POWER CONSUMPTION:	140W
POWER SUPPLY:	AC 115V, 200V, 220V, 240V, 50/60 Hz
DIMENSIONS (W×D×H):	623×290×109 mm ($24\frac{1}{2}$"×$11\frac{13}{32}$"×$4\frac{9}{32}$")
WEIGHT:	7.8 kg (17 lb 3 oz)
Impedance:	4 ohms & 8 ohms

AMPLIFIER SECTION

Power Output: (DIN 45500)	MPO 2×28W (THD 1% 4 ohms) 2×20W (THD 1% 8 ohms)
Power Output: (DIN 45500)	RMS 2×25W (THD 1% 4 ohms) one channel driven 2×17W (THD 1% 8 ohms) one channel driven RMS 2×20W (THD 1% 4 ohms) both channel driven 2×16W (THD 1% 8 ohms) both channel driven
Frequency Response:	20 Hz~25 kHz ±1.5 dB (DIN)
Input Sensitivity and Impedance: (For Rated Output Power (1kHz))	PHONO 2.5mV 56 k ohms MIC 1mV 5 k ohms AUX 200mV 680 k ohms TAPE 200mV 680 k ohms
REC OUT and Impedance:	DIN 20mV 75 k ohms
Tone Control:	Bass −15 dB~+15 dB at 50 Hz Treble −15 dB~+15 dB at 15 kHz Loudness +6 dB at 50 Hz, +4 dB at 15 kHz

FM TUNER SECTION (DIN 45500)

Frequency Range:	87.5~108 MHz
Intermediate Frequency (I.F.):	10.7 MHz
Sensitivity:	3μV (IHF) 3μV (S/N 26 dB, MOD 40 kHz)
Image Ratio:	40 dB (98 MHz)
Selectivity:	40 dB (±300 kHz)
Signal to Noise Ratio:	60 dB (1 kHz, 60 dB, 40 kHz Unweighted)
Distortion:	0.6% (Mono) (1 kHz 60 dB 100%) 0.7% (Stereo) (1 kHz 60 dB 100%)
Stereo Separation:	40 dB (1 kHz 60 dB 30%) 30 dB, 250Hz~6.3 kHz (60 dB 30%) 18 dB, 6.3 kHz~12.5 kHz (60 dB 30%)

These specifications might be modified for development of technology.

National Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka, Japan

■ TO REMOVE TOP COVER

1. Remove the eight (8) screws (nos. 1~7 & 12) for the buttom palnel, as shown in fig. 1.
2. Remove the buttom panel & bracket.
3. Remove the four (4) screws (nos. 8~11) for the rear panel, as shown in fig. 1.
4. Remove the rear panel.
5. Remove the two (2) red screws (nos. 1 & 2) for the top cover, as shown in fig. 2.
6. Remove the top cover.
7. To reassemble, reverse the above procedure and read the following notes.

Notes:

As shown in the Fig. 11. to fix the top cover.

1. Insert the bracket of top cover into a gap A into the direction as arrow ① shows.
2. Lower the top cover in the direction as arrow ② shows to fit with part B.
3. Fighten ② shows to fix the balance of top cover and Escutcheon.

■ TO REMOVE ESCUTCHEON

1. Remove the nine (9) knobs for the tuning, band, selector, treble, bass, balance, volume and MIC level.
2. Remove the top cover. (Refer to top cover removal instructions).
3. Remove the six (6) red screws (nos. 1~6) for the escutcheon, as shown in fig. 3.
4. Remove the three (3) red screws (nos. 1~3) for the escutcheon, as shown in fig. 4.
5. Pull out two (2) sockets from chassis.
6. Remove the escutcheon.
7. To reassemble, reverse the above procedure and read the following notes.

Notes:

1. When fix the Escutcheon, lift right side escutcheon and slant escutcheon to anoid touch rib and scale before fix the escutcheon as shown in fig. 9 & 10.

■ TO REMOVE TAPE DECK

1. Remove the top cover. (Refer to top cover removal instructions).
2. Remove the escutcheon. (Refer to escutcheon removal instructions).
3. Remove the four (4) screws (nos. 1~4) for the tape deck cover, as shown in fig. 5.
4. Remove the tape deck cover and insulating plate.
5. Remove the two (2) screws (nos. 1~2) for tape deck, as shown in fig. 6.
6. Remove the two (2) screws (nos. 1~2) for tape deck, as shown in fig. 7.
7. Remove the tape deck.
8. Pull out Four (4) sockets from chassis.
9. To reassemble, reverse the above procedure and note the following.
   When fix deck cover, to fix boss of cassette lid to lever of slow up mechanism, as shown in fig. 8.

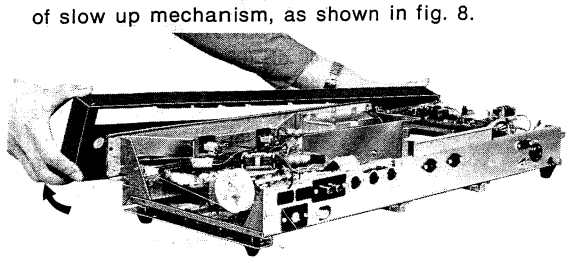


Fig. 9

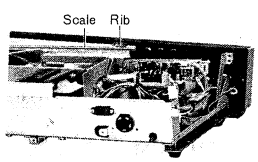


Fig. 10

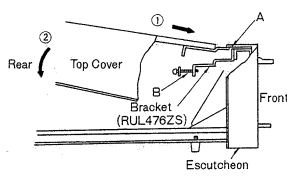


Fig. 11

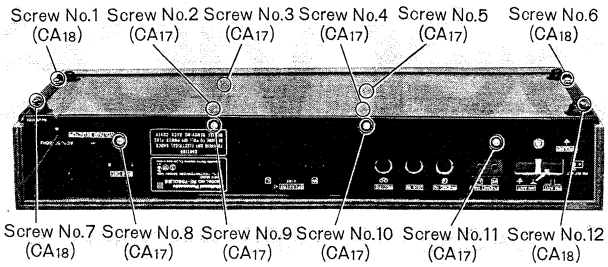


Fig. 1

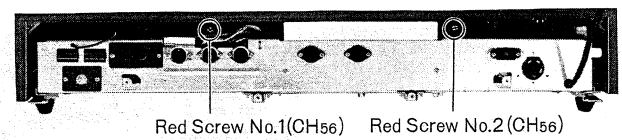


Fig. 2

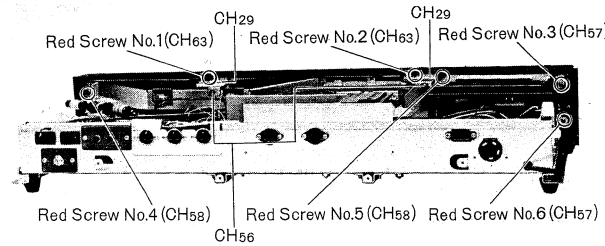


Fig. 3

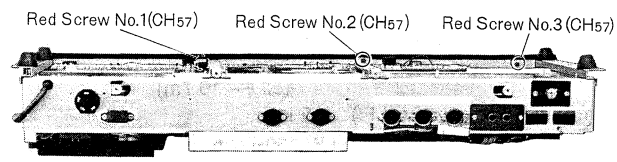


Fig. 4

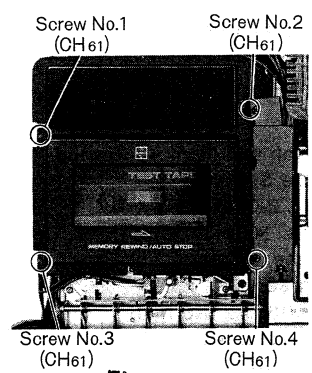


Fig. 5

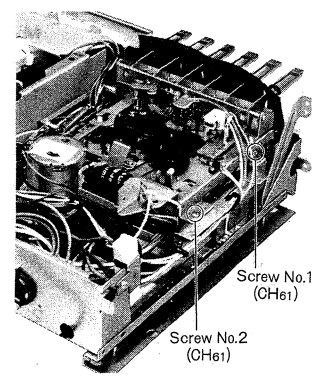


Fig. 6

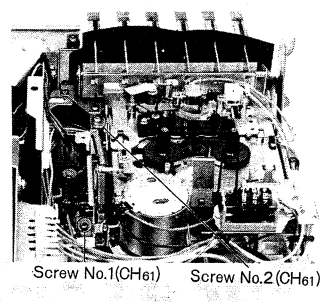


Fig. 7

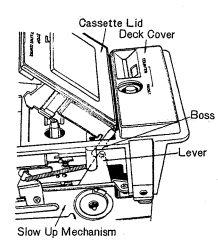


Fig. 8

■ DIAL CORD INSTALLATION GUIDE

1. Dial cord length is 200 cm (76 25/32").
2. Turn the dial drum to fully counter clockwise (minimum capacitor).
3. Arrows (1～11) indicate correct order and direction of dial cord installation, as illustrated in fig. 12.
4. Cement dial cord ends.

■ TO MOUNT DIAL POINTER

1. Set variable capacitor to maximum capacity.
2. Set dial pointer to start point of dial scale.
3. Attach dial cord to dial pointer.

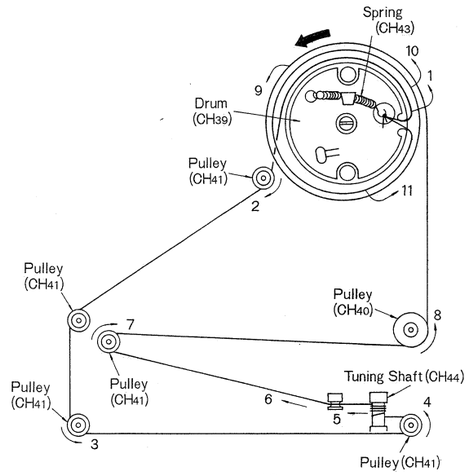


Fig. 12

■ ALIGNMENT POINTS

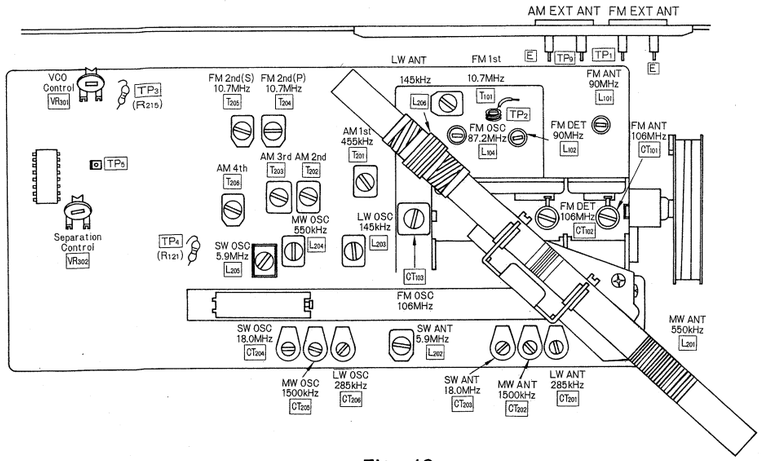


Fig. 16

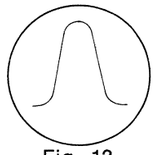


Fig. 13

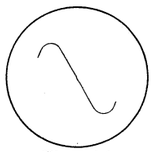


Fig. 14

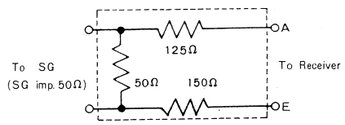


Fig. 15 FM Dummy Antenna

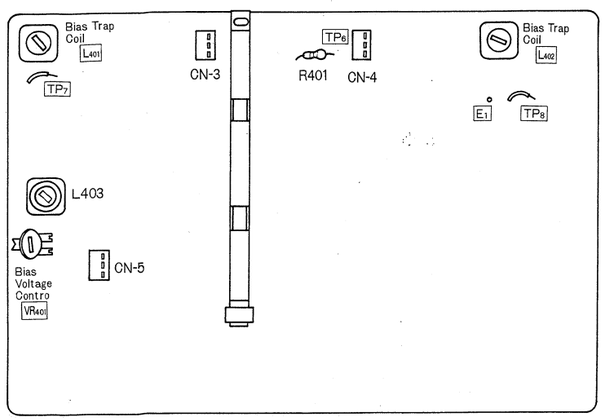


Fig. 17

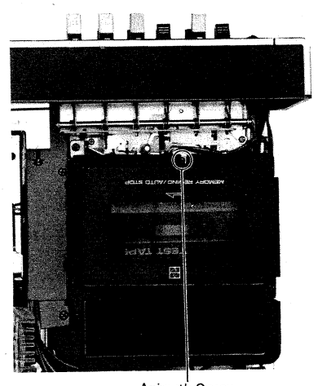


Fig. 18

■ ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

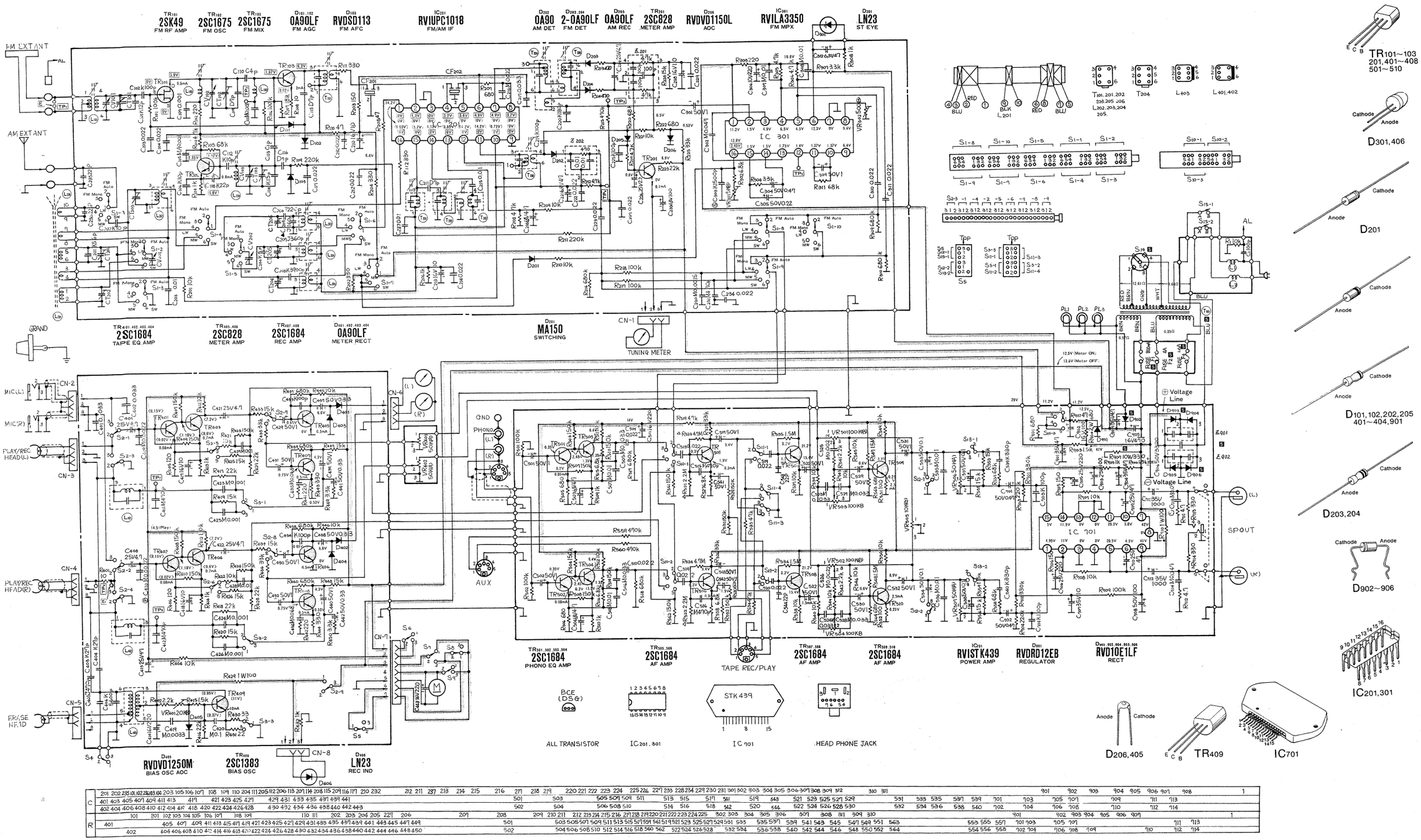
Notes:
1. Set volume control to maximum.
2. Set treble & bass control to center.
3. Set balance control to center.
4. Set selector switch to LW, MW, SW or FM.
5. Set power source voltage to 115, 200, 220 or 240 volts AC.
6. Set power switch to ON.
7. Set tape deck to recording. (for recording bias alignment)
8. Output of signal generator should be no higher than necessary to obtain an output reading.
9. When FM aligning, remove line cord antenna attached to EXT FM antenna terminal.

	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING [DISTANCE]	INDICATOR (VTVM or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
	LW ALIGNMENT					
(1)	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455 kHz 30% Mod. with 400 Hz.	Point of non-interference. (on/about 600 kHz)	Output meter across speaker jack. (Left side)	T_{201} (1st IFT) T_{202} (2nd IFT) T_{203} (3rd IFT) T_{206} (4th IFT)	Adjust for maximum output.
(2)	〃	145 kHz	145 kHz [24.6mm (31/32")]	〃	L_{203}(OSC Coil) (＊1)L_{206}(ANT Coil)	Adjust for maximum output. Adjust L_{206} by moving coil bobbin along ferrite core.
(3)	〃	285 kHz	285 kHz [202.6mm (7 31/32")]	〃	CT_{206} (OSC Trimmer) CT_{201} (ANT Trimmer)	Adjust for maximum output. Repeat steps (2) and (3).
	MW ALIGNMENT					
(4)	〃	550 kHz	550 kHz [24.6mm (31/32")]	〃	L_{204}(OSC Coil) (＊1)L_{201}(ANT Coil)	Adjust for maximum output. Adjust L_{201} by moving coil bobbin along ferrite core.
(5)	〃	1500 kHz	1500 kHz [191.7mm (7 9/16")]	〃	CT_{205} (OSC Trimmer) CT_{202} (ANT Trimmer)	Adjust for maximum output. Repeat steps (4) and (5).
	(＊1) Cement antenna bobbin with wax after completing alignment.					
	SW ALIGNMENT					
(6)	Connect to point TP1 through 10PF capacitor. Common to point E.	5.9 MHz	5.9 MHz [8.8mm (11/32")]	〃	L_{205} (OSC Coil) L_{202} (ANT Coil)	Adjust for maximum output.
(7)	〃	18.0 MHz	18.0 MHz [205.3mm (8 3/32")]	〃	CT_{204} (OSC Trimmer) CT_{203} (ANT Trimmer)	Adjust for maximum output. Repeat steps (6) and (7).
	FM-IF ALIGNMENT					
(8)	High side thru. 0.001μF to point TP2. Common to chassis. Negative side to point E.	10.7 MHz (400 kHz SWP.)	Point of non-interference. (on/about 90 MHz).	Connect vert. amp. of scope to point TP3, Negative side to point E.	T_{101}(FM 1st IFT) T_{204}(FM 2nd IFT) (Primary)	Adjust for maximum amplitude. (Refer to fig. 13.)
(9)	〃	〃	〃	〃	T_{205}(FM 2nd IFT) (Secondary)	Adjust for maximum amplitude. (Refer to fig. 14.)
	FM-RF ALIGNMENT					
(10)	Connect to point TP1 through FM dummy antenna. Negative side point to E. (Refer to fig. 15).	87.2 MHz	Variable capacitor fully closed.	Output meter across speaker jack. (Left side)	L_{104} (FM OSC Coil)	(＊2)Adjust for maximum output.
(11)	〃	90 MHz	Tune to signal.	〃	L_{102}(FM DET Coil) L_{101}(FM ANT Coil)	(＊2)Adjust for maximum output.
(12)	〃	106 MHz	106 MHz [178.1mm (7 3/32")]	〃	CT_{103}(FM OSC Trimmer) CT_{102}(FM DET Trimmer) CT_{101}(FM ANT Trimmer)	(＊2)Adjust for maximum output. Repeat steps (10)～(12).
	(＊2) Three output responses will be present; proper tuning is the center frequency.					

RECORDING BIAS ALIGNMENT

	CIRCUIT	VTVM CONNECTION	ADJUSTMENT	REMARKS
(13)	RECORDING BIAS	Connect positive side to test point TP6 and negative side to test point E1.	VR_{401} (Bias Voltage Control)	Adjust VR_{401} for 5mV of VTVM reading.
(14)	RECORDING BIAS	Connect positive side to test point TP7 and negative side to test point E1.	L_{401} (Bias Trap Coil)	Adjust L_{401} for minimum of VTVM reading.
(15)	RECORDING BIAS	Conneot positive side to test point TP8 and negative side to test point E1.	L_{402} (Bias Trap Coil)	Adjust L_{402} for minimum of VTVM reading.

Schematic Diagram – Model RE-7860LBS



Notes:

1. S1-1～S1-10: Band selector switch in "FM STEREO" position.
2. S2-1～S2-9: Tape Play-Rec switch in "PLAY" position.
3. S3-1～S3-3: Tape selector switch in "NORMAL" position.
4. S4: BIAS OSC switch in "1" position.
5. S5: MEMORY REWIND switch in "OFF" position.
6. S6: Equalizer Amp. switch in "OFF" position.
7. S7: PLAY/REWIND switch in "PLAY" position.
8. S8: Counter switch.
9. S9: Motor switch.
10. S10-1～S10-3: SELECTOR switch in "RADIO" position.
11. S11-1～S11-4: TAPE MONITOR switch in "MONITOR" position.
12. S12-1～S12-2: HIGH FILTER in "OFF" position.
13. S13-1～S13-2: LOUDNESS switch in "OFF" position.
14. S14: VOLTAGE selector in "115V" position.
15. S15: Power switch in "OFF" position.
16. DC voltage measurements are taken with circuit tester 10kΩ/V from earth.
    □.....FM position ( ).....AM position
    〔 〕.....Recording position 〈 〉.....Play position
17. **S** Indicates that only parts specified by the manufacturer be used for replacement in critical circuits.

Circuit Board Wiring Vie

TR101	
	FM
G	0 V
D	5.9V
S	0 V
Id	0.5mA

TR102	
	FM
C	2.35V
B	1.07V
E	0.8V
Ie	0.8mA

TR103	
	FM
C	6.2V
B	1.07V
E	0.02V
Ie	2mA

TR201	
C	8.9V
B	0.6V
E	0 V
Ie	0.1mA

TR401,402	
	Play
C	1.18V
B	0.15V
E	0.02V
Ie	0.08mA

TR403,404	
	Play
C	7.2V
B	1.18V
E	0.6V
Ie	0.7mA

TR405,406	
C	6.6V
B	0.65V
E	0 V
Ie	0.5mA

TR407,408	
C	4.3V
B	0.75V
E	0.53V
Ie	0.5mA

TR501,502	
C	2.45V
B	0.35V
E	0.05V
Ie	0.08mA

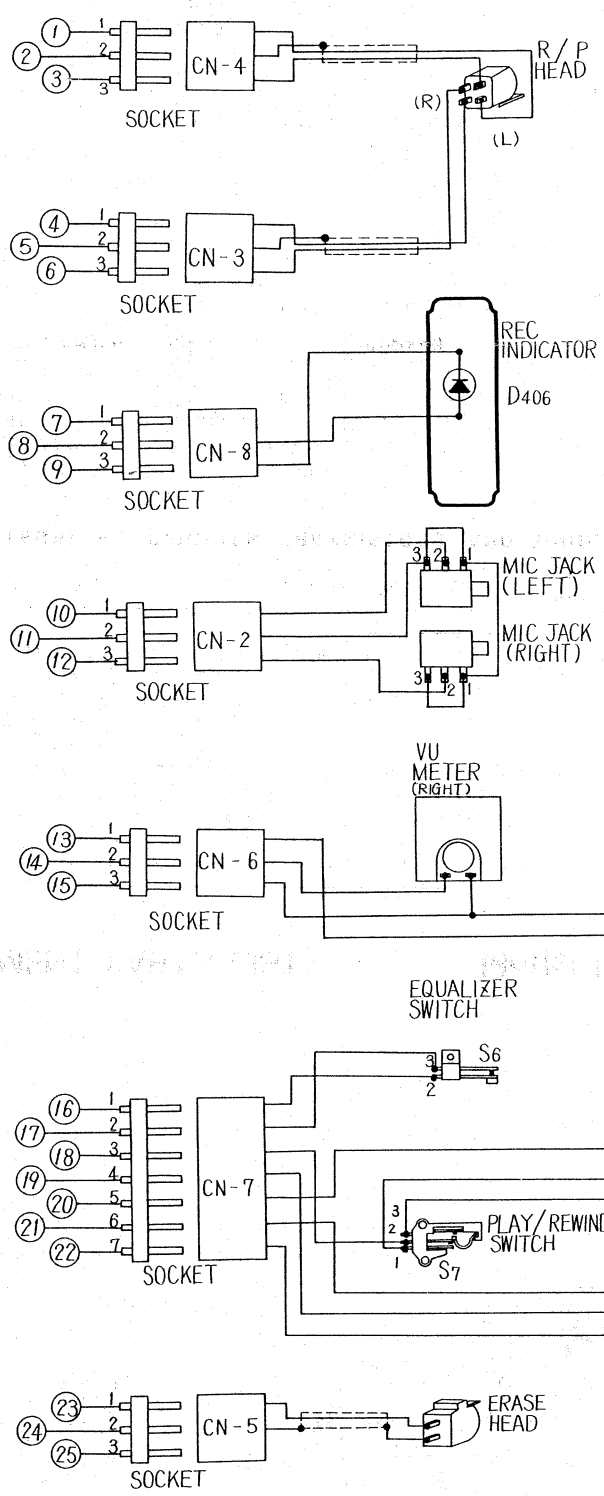
TR503,504	
C	6.4V
B	2.45V
E	1.35V
Ie	1.35mA

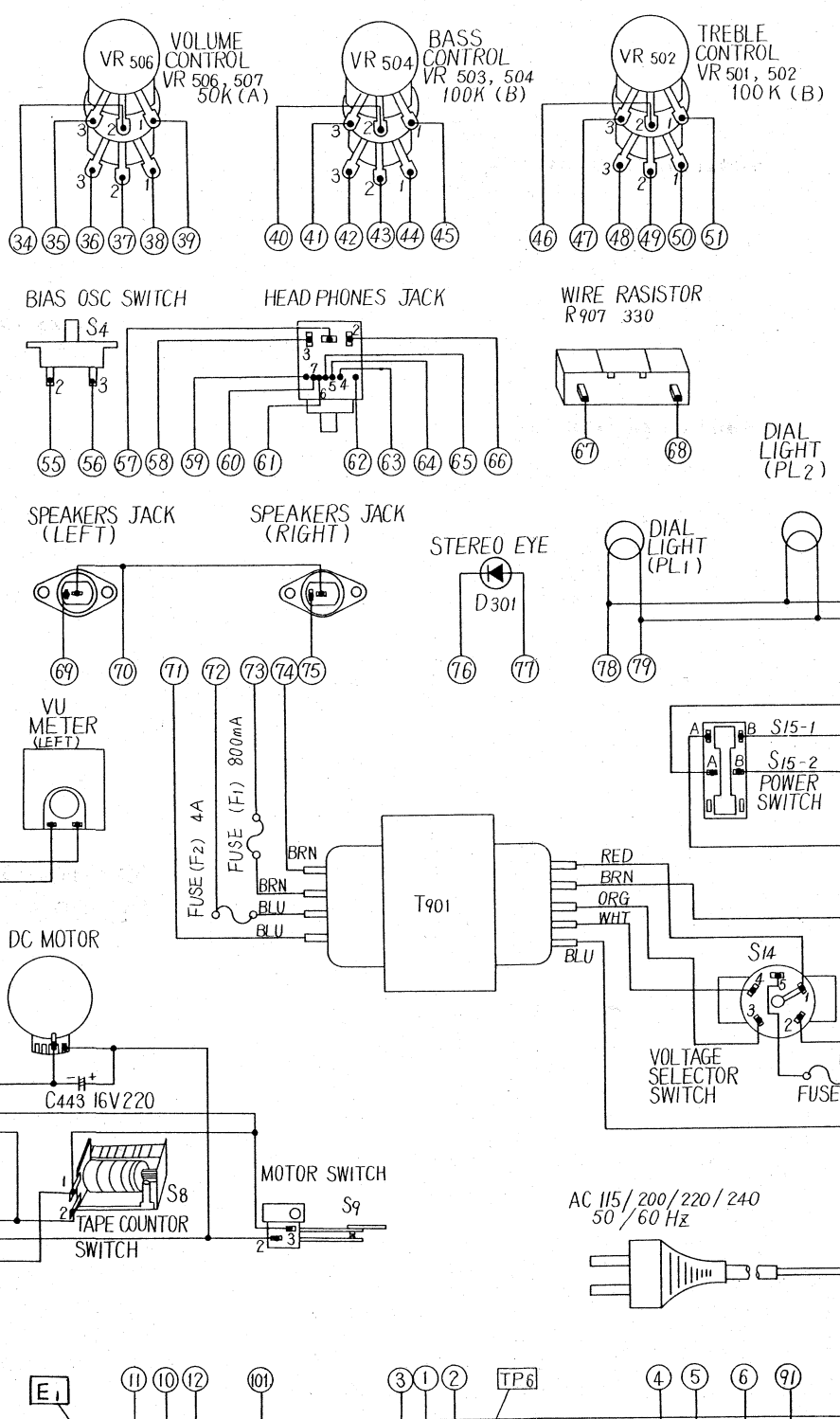
TR409	
	Recording
C	11V
B	0.95V
E	0.37V
Ie	10mA

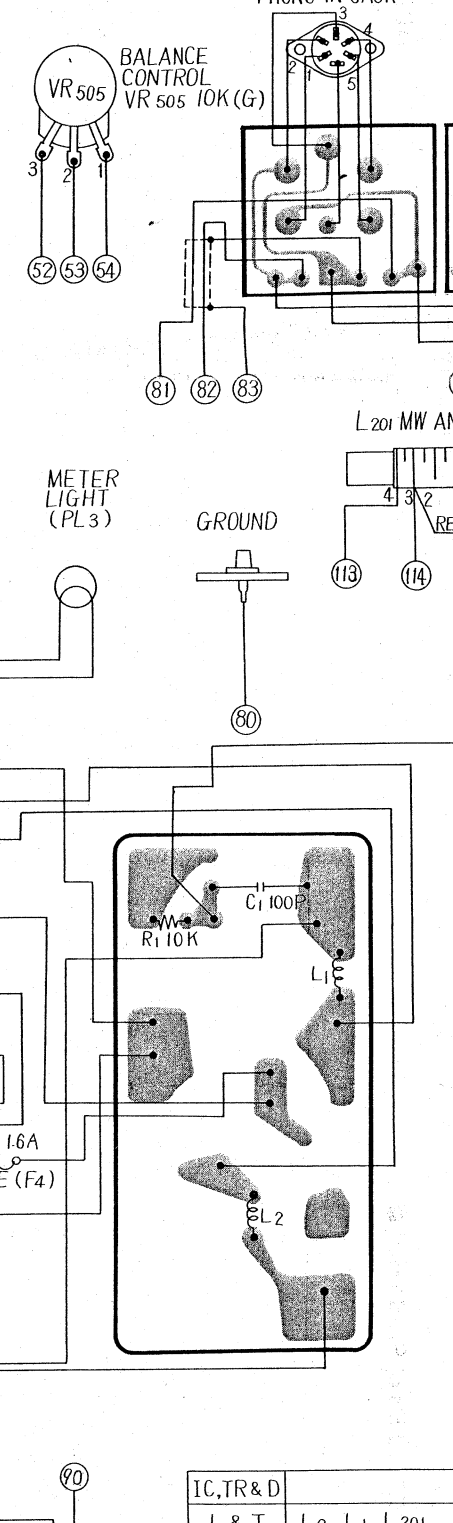
TR505,506	
C	9.4V
B	0.3V
E	1.9V
Ie	0.3mA

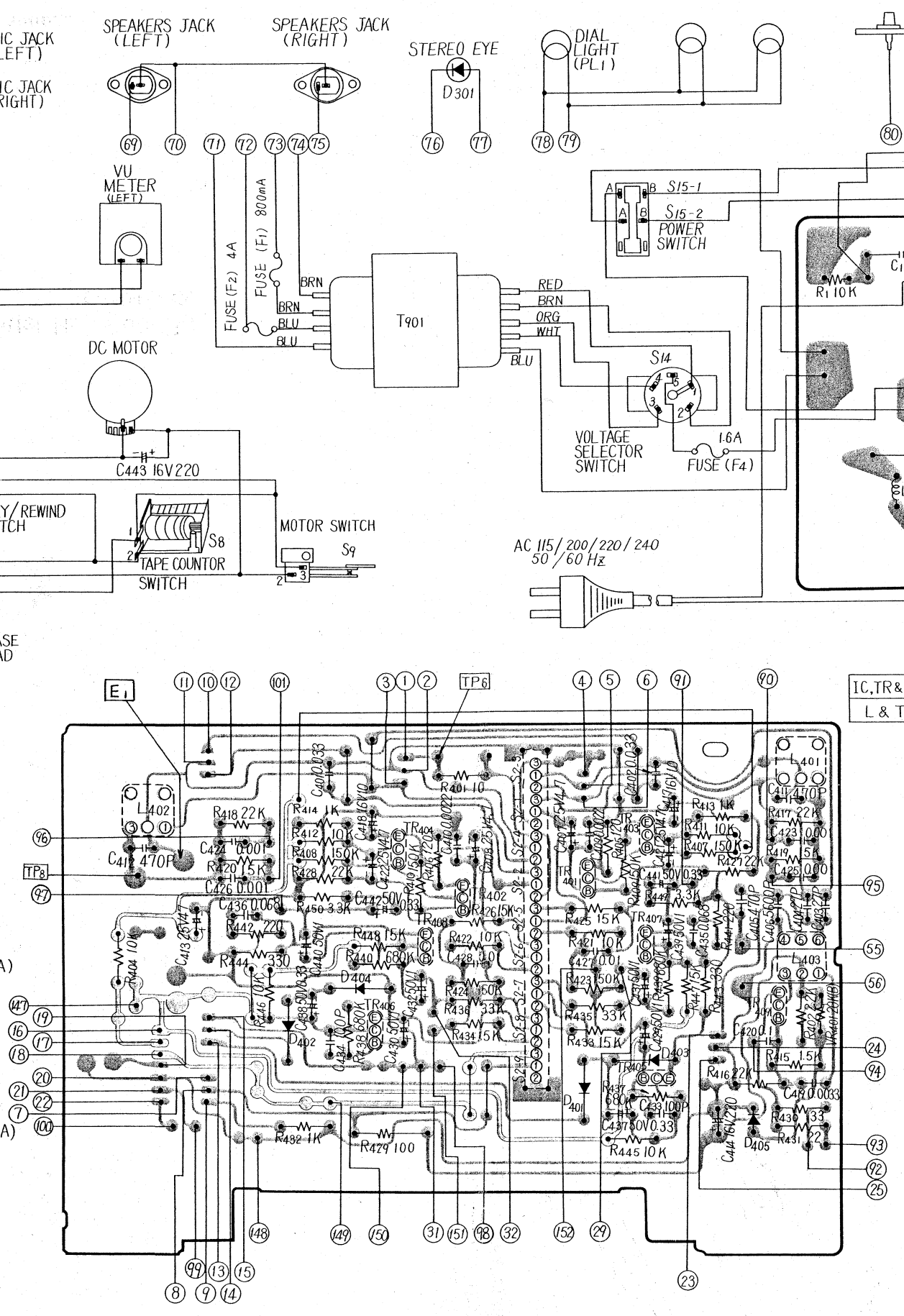
TR507,508	
C	21.2V
B	3.2V
E	15.4V
Ie	1.5mA

TR509,510	
C	8.9V
B	0.6V
E	0.25V
Ie	2.5mA









IC,TR&D	
L&T	L2 L1 L201

TR&D	D406	D402	D404 TR406 TR404 TR408 TR402	D401 TR401 D403 TR405 TR407 TR403 D405 TR409
L&T	L402		T901	L403 L401

ing View - Model RE-7860LBS

TR509,510

C	8.9V
B	0.6V
E	0.25V
Ie	2.5mA

IC 201

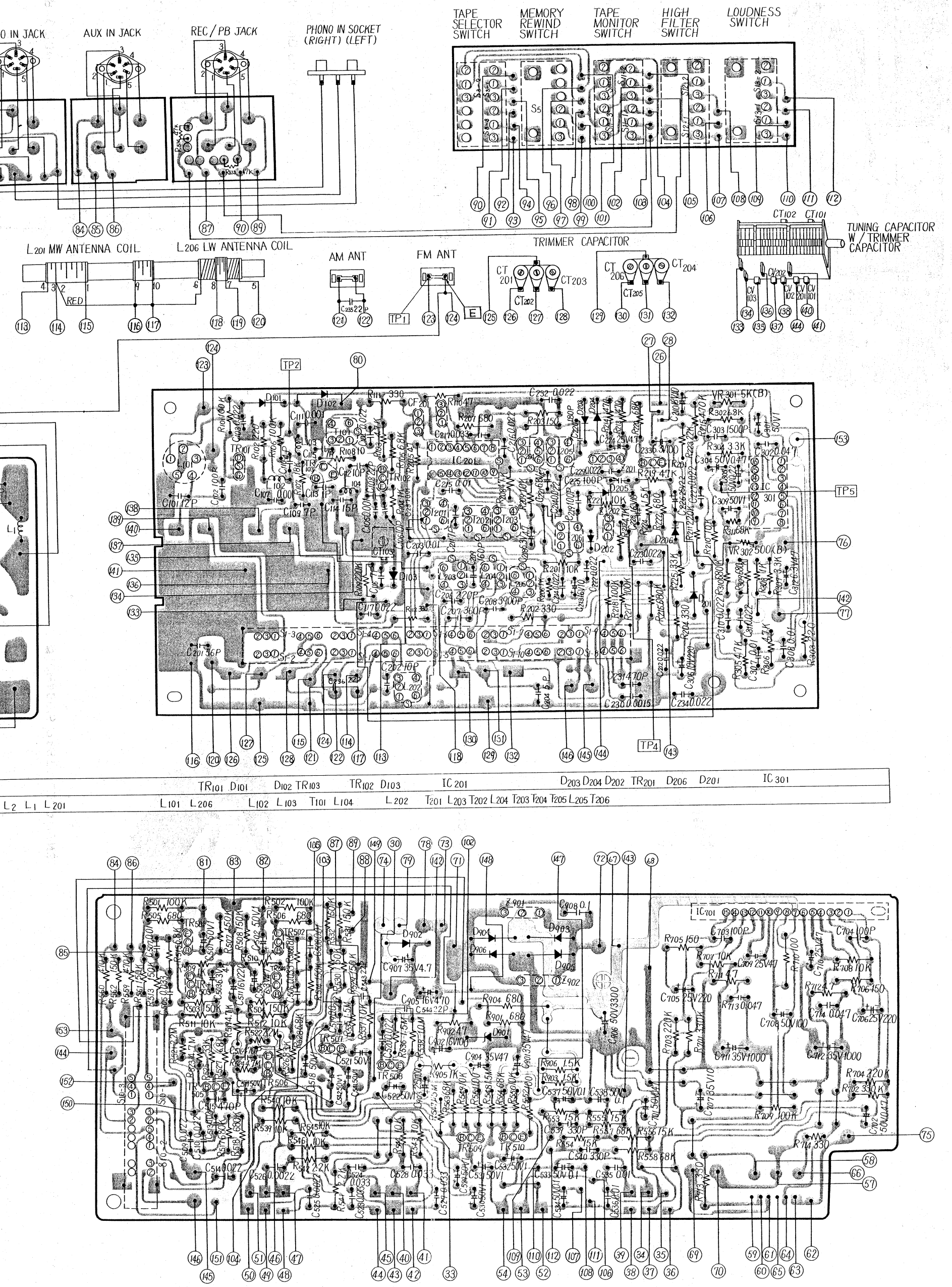
	AM	FM		AM	FM
1	14.2V	0 V	9	0 V	0 V
2	0 V	1.3V	10	0.75V	0 V
3	0 V	0 V	11	14.2V	0 V
4	0 V	3.2V	12	14.2V	0 V
5	0 V	3.6V	13	0.85V	0 V
6	0 V	4.9V	14	1.17V	0 V
7	0 V	4.9V	15	5.7V	0 V
8	0 V	3.7V	16	1.03V	0 V

IC 701

1	2	3	4	5	6	7	8
4.95V	11V	0V	0 V	20.5V	4.5V	42V	0 V
9	10	11	12	12	13	15	
41V	3.8V	20.3V	0 V	0 V	11.5V	5 V	

IC 301

	FM		FM
1	11.2V	9	6.4V
2	1.5V	10	1.37V
3	1.9V	11	1.37V
4	6.5V	12	1.4V
5	6.5V	13	1.75V
6	12.3V	14	1.5V
7	0 V	15	1.5V
8	0.4V	16	2.45V(FM) 12.8V(AM)



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ing View - Model RE-7860LBS

TR509,510

C	8.9V
B	0.6V
E	0.25V
Ie	2.5mA

IC201

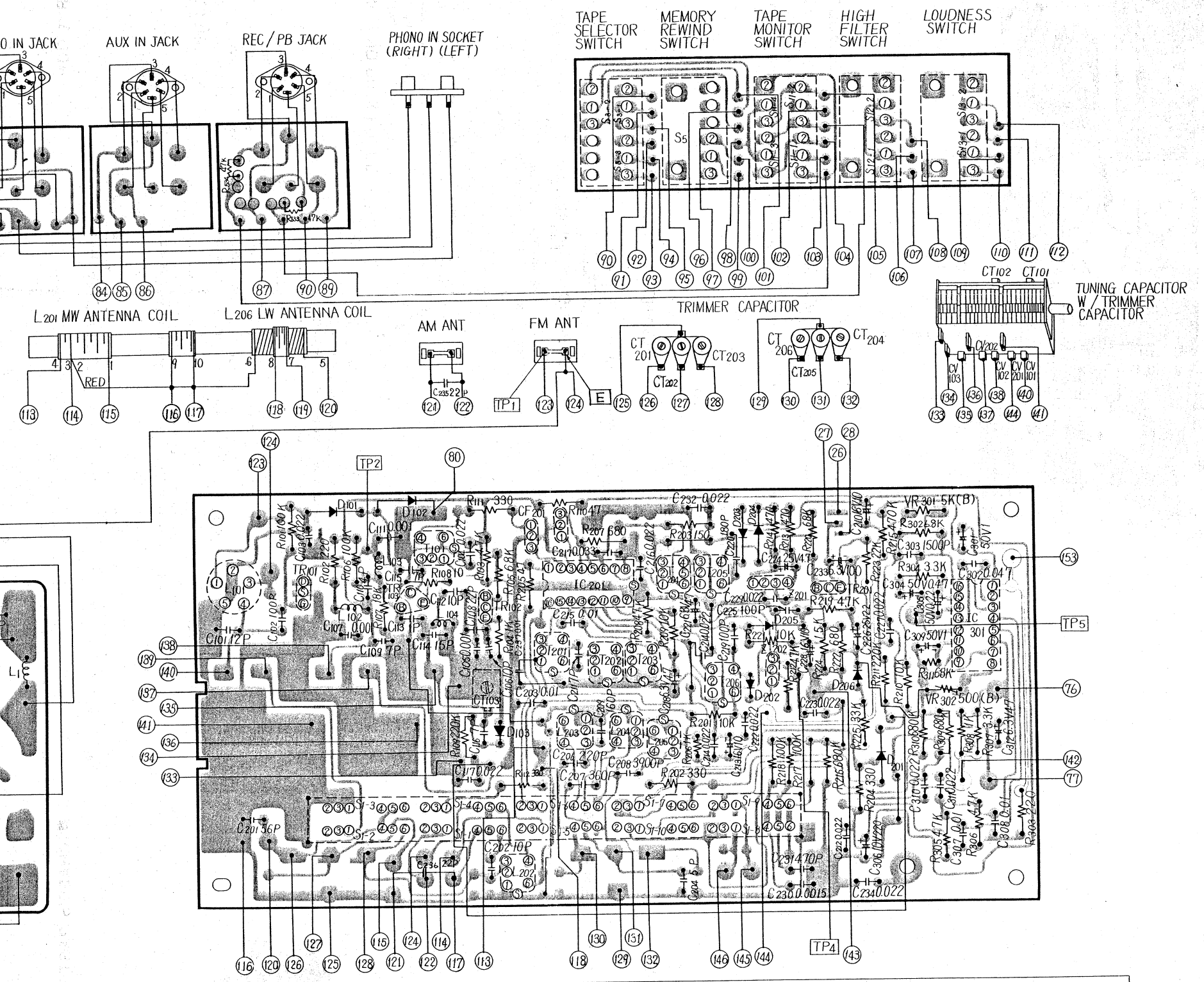
	AM	FM		AM	FM
1	14.2V	0V	9	0V	0V
2	0V	1.3V	10	0.75V	0V
3	0V	0V	11	14.2V	0V
4	0V	3.2V	12	14.2V	0V
5	0V	3.6V	13	0.85V	0V
6	0V	4.9V	14	1.17V	0V
7	0V	4.9V	15	5.7V	0V
8	0V	3.7V	16	1.03V	0V

IC701

1	2	3	4	5	6	7	8
4.95V	11V	0V	0V	20.5V	4.5V	42V	0V
9	10	11	12	12	13	15	
41V	3.8V	20.3V	0V	0V	11.5V	5V	

IC301

	FM		FM
1	11.2V	9	6.4V
2	1.5V	10	1.37V
3	1.9V	11	1.37V
4	6.5V	12	1.4V
5	6.5V	13	1.75V
6	12.3V	14	1.5V
7	0V	15	1.5V
8	0.4V	16	2.45V(FM) 12.8V(AM)



| | | | | | | |

■ ACCESSORIES & PACKING MATERIALS

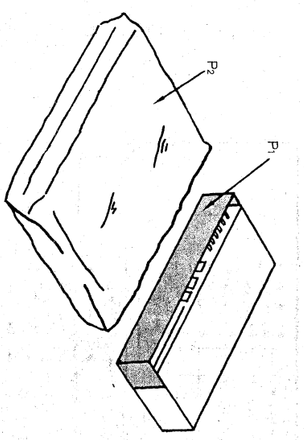


Fig. 22

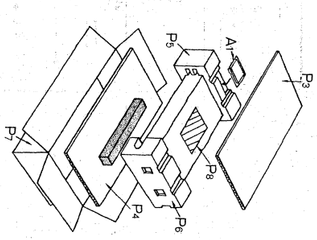


Fig. 23

■ MECHANISM PARTS LOCATIONS-TAPE DECK

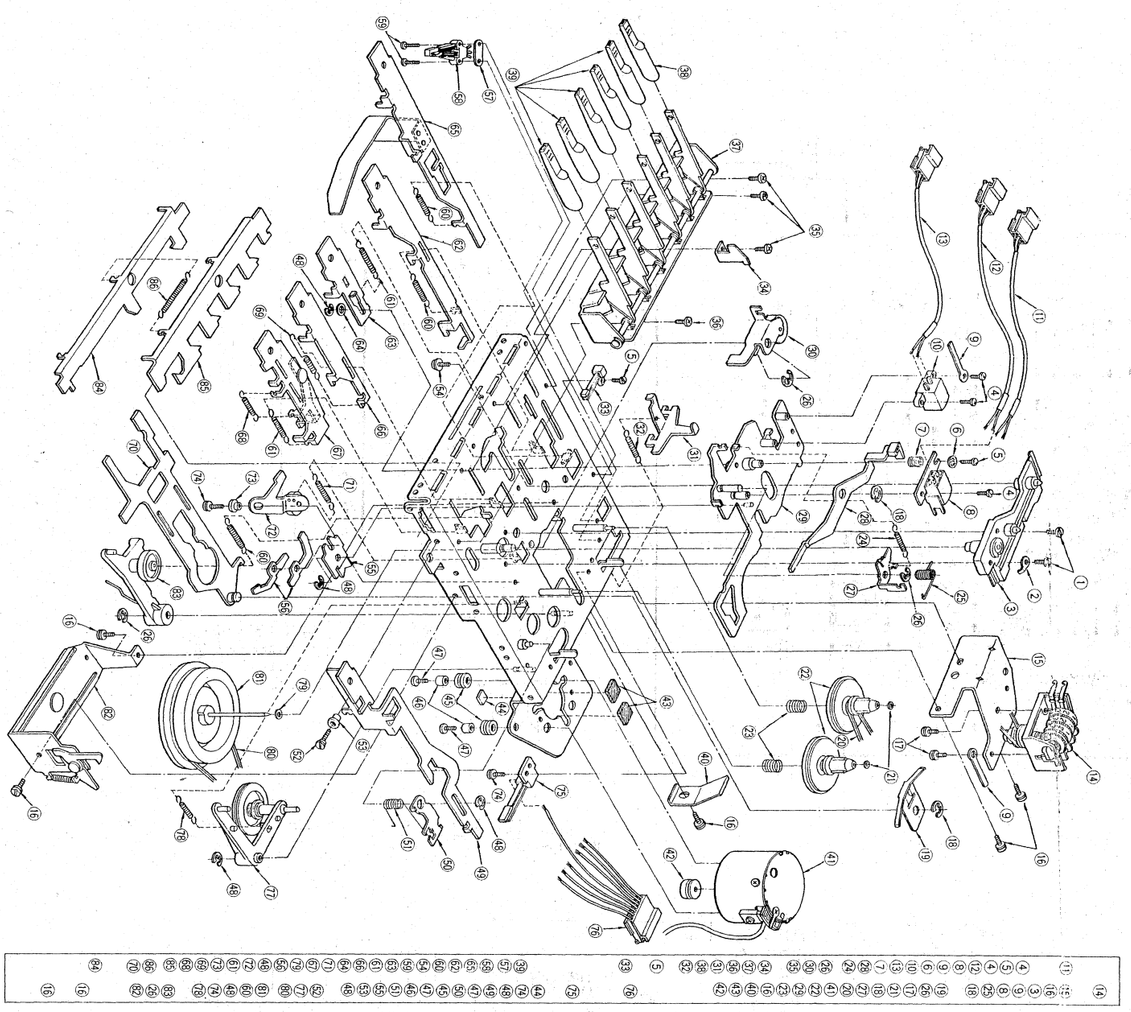


Fig. 24

■REPLACEMENT PARTS LIST····· Model RE-7860LBS

(RD7604-1288)

NOTES: 1.Part numbers are indicated on most mechanical parts.
Please use this part number for parts orders.
2.X−Z rank parts will cover 80% of repair needs.
X+Y rank parts will cover 95% of repair needs.
Z rank parts are less necessary.
3. ⚠ Indicates that only parts specified by the manufacturer be used for replacement in critical circuits.
4.Part numbers shown in bold letters are service standard parts and may differ from Projuction parts.
5.The ○ mark is used by the manufacturing plant only.

Ref. No.	Part No.	Part Name & Description	Per Set		Remarks
INTEGRATED CIRCUITS, TRANSISTORS AND DIODES					
IC201	RV1UPC1018	IC(Si), FM/AM IF	1	○	X
IC301	RVILA3350	IC(Si), FM MPX	1	○	X
IC701	RVISTK439	IC(Si), Power Amp.	1	○	X
TR101	2SK49	Transistor(Si), FM RF Amp.	1		X
TR102,103	2SC1675	Transistor(Si), FM Oscillator & FM Mixer	2		X
TR201,405, 406	2SC828	Transistor(Si), Meter Amp.	3		X
TR401,402, 403,404, 407,408, 501,502, 503,504, 505,506, 507,508, 509,510	2SC1684	Transistor(Si), Tape Equalizer Amp. REC Amp. Phono Equalizer Amp., AF Amp.	16		X
TR409	2SC1383	Transistor(Si), Bias Oscillator	1		X
D101,102,205 401,402,403 404	OA90LF	Diode(Ge), FM AGC, AM Rectifier, Meter Rectifier	7		X
D103	RVDSD113	Diode(Si), FM AFC	1	○	X
D201	MA150	Diode(Si), Switching	1		X
D202	OA90	Diode(Ge), AM Detector	1		X
D203,204	2-OA90LF	Diode(Ge), FM Detector	1Pair		X
D206	RVDVD1150L	Diode(Si), Meter Operation Compensator	1		X
D301,406	LN23	Diode(Ga), Stereo Eye & REC Indicator	2		X
D405	RVDVD1250M	Diode(Si), Bias Oscillator Operation Compensator	1		X
D901	RVDRD12EB	Diode(Si), Regulator	1	○	X
D902,903,904 905,906	RVD10E1LF	Diode(Si), Rectifier	5		X ⚠
CERAMIC FILTERS, COILS AND TRANSFORMERS					
CF201,202	RVFCF10M12FR	Ceramic Filter	2		X
L101	SLA4N2-O	Antenna Coil, FM	1		X

Ref. No.	Part No.	Part Name & Description	Per Set		Remarks
L102	RLD4N30	Coil, FM Tuning	1		X
L103	RLQY30S1-O	Coil, IF Trap	1		X
L104	SLO4N12-O	Oscillator Coil, FM	1		X
L201,206	RLF6F19-O	Antenna Coil, MW & LW	1	○	X
L202	RLA3M10	Antenna Coil, SW	1		X
L203	RLO1M4-K	Oscillator Coil, LW	1	○	X
L204	RLO2M14-K	Oscillator Coil, MW	1	○	X
L205	RLO3M31-K	Oscillator Coil, SW	1	○	X
L401,402	RLE5004-K	Coil, Bias Trap	2	○	X
L403	RLO9C18-K	Oscillator Coil, Bias	1	○	X
L1,2	RLQY15G5-O	Coil, Choke	2	○	X
T101	RLI4M101	IFT, FM 1st	1		X
T201	RLI2M212-K	IFT, AM 1st	1	○	X
T202	RLI2M201-K	IFT, AM 2nd	1	○	X
T203	RLI2M202-K	IFT, AM 3rd	1	○	X
T204	RLI4M504	IFT, FM 2nd, Primary	1		X
T205	RLI4M506	IFT, FM 2nd, Secondary	1		X
T206	RLI2M401	IFT, AM 4th	1		X
T901	RLT5P13-W	Power Transformer	1	○	X ⚠
VARIABLE RESISTORS					
VR402,403	RVV54B52-A	500Ω(B), REC Volume	2	○	X
VR501,502, 503,504	RVV15B53-A	5KΩ(B), Tone Control	2	○	X
VR505	RVV14G54-A	50KΩ(B), Balance Control	1	○	X
VR506,507	RVV54A46-A	50KΩ(A), Volume Control	1	○	X
VR301	EVTT4AA00B53	5KΩ(B), Preset, VCO Control	1	○	X
VR302	EVTT4AA00B52	500Ω(B), Preset, Separation Control	1		X
VR401	EVTT4AA00B24	20KΩ(B), Preset, Bias Control	1		X
VARIABLE CAPACITORS					
CV101,102, 103,201, 202	RCVC752J192	Tuning Capacitor, W/Trimmer Capacitor(CT101,102)	1	○	X
CT103	RCVCTY12B218	Trimmer Capacitor	1		X
CT201,202, 203,204, 205,206	RCV3T16M	Trimmer Capacitor	2		X
COMPONENT COMBINATIONS					
Z201	EXA5DL01C	Component Combination 100PF×3, 4.7KΩ×2	1		X
Z202	EXAF203Z471	Component Combination 0.01μF×2, 470Ω	1		X
Z901,902	RXAF103P22HD	Component Combination, 0.01μF×2	2		X
SWITCHES					
S1-1~S1-10	ESA-121A51	Switch, Band	1	○	X
S2-1~S2-9	RSH32Y-M	Switch, Record/Play	1		X
S3-1~S3-3 S11-1~S11-4	RST20ZS-H	Switch, Tape Selector & Tape Monitor	2	○	X
S4	RSS81B-G	Switch, Bias Oscilator	1		X

■ ALIGNMENT INSTRUCTIONS

HEAD AZIMUTH ALIGNMENT		
CIRCUIT	ADJUSTMENT	REMARKS
R/P HEAD	1. Play the test tape C-AA. 2. Adjust the azimuth screw, as shown in fig. 18.	Adjust for maximum output at speaker.

EQUIPMENT REQUIRED

* Stereo Modulator.....Connect Stereo Modulator output to EXT. Mod. terminal of signal generator.
  Modulation Rate of 19 kHz Pilot Signal.....10%.
* Signal Generator.....Modulation Rate by L+R Signal.....27% (Alignment Step 2)
  Output Level.....60 dB
  Frequency.....Approximately 98 MHz
* Oscilloscope
* VTVM
* Dummy Antenna
* Low Pass Filter

Notes: 1. When aligning, remove line cord antenna attached to External FM Antenna terminal.
2. When aligning, set $VR_{301, 302}$ as illustrated in figure below.

$VR_{301, 302}$

CONTROL SETTING AND PROCEDURE

1. Set selector to FM Auto.
2. Set bass and treble control to center.
3. Set balance control to center.
4. Set power source voltage to 115, 200, 220 or 240 volts AC.
6. Set variable capacitor to approximately 98 MHz.
5. Set volume control to audible level of speaker sound.

	EQUIPMENT CONNECTIONS				ADJUSTMENT	REMARKS
	SIGNAL GENERATOR	VTVM	OSCIL-LOSCOPE	ELECTRONIC COUNTER		
	PILOT CIRCUIT ALIGNMENT					
(1)	Connect to EXT FM antenna terminal through dummy antenna.	—	—	Connect to point TP5, Common to chassis.	VR_{301} (VCO Control)	Adjust VR_{301} for 19 kHz (±50 Hz) of electronic counter reading.
	SEPARATION ALIGNMENT					
(2)	〃	Connect across speaker jack. (Left Side).	Connect to terminals of VTVM.	—	VR_{302} (Separation Control)	Adjust VR_{302} for the minimum indication on VTVM from the left side output when the right side of Stereo modulator is modulated.

NOTE

In the review operation, it is necessary to depress the rewind/review lever firmly enough to review the tape, because your insufficient force of depressing the lever can continue to stop the tape.
The reviewing tape-speed and sound depend on the strength of force given to the rewind/review lever.

■ CHASSIS PARTS LOCATIONS

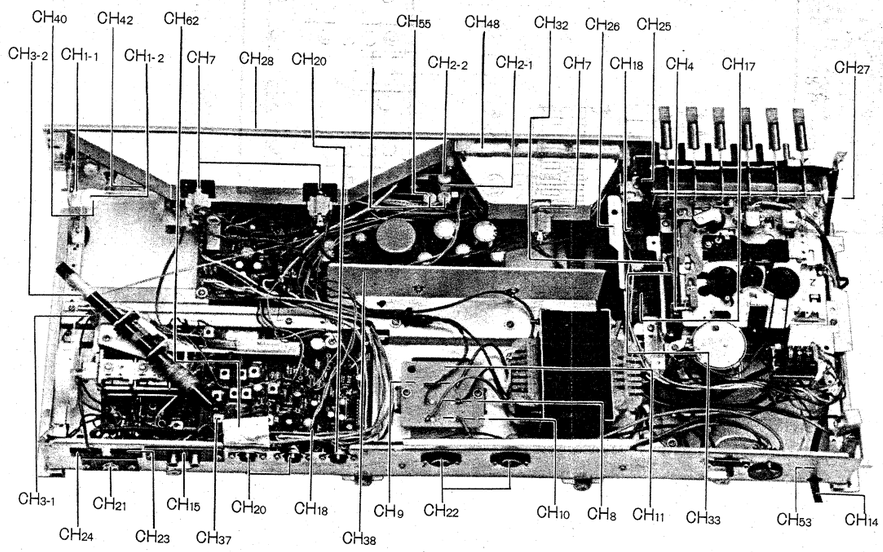

CH40 CH42 CH62 CH55 CH48 CH32 CH26 CH25
CH3-2 CH1-1 CH1-2 CH7 CH28 CH20 CH2-2 CH2-1 CH7 CH18 CH4 CH17 CH27
CH3-1 CH21 CH15 CH20 CH18 CH9 CH22 CH10 CH8 CH11 CH33 CH53 CH14
CH24 CH23 CH37 CH38

Fig. 19

■ CHASSIS PARTS LOCATIONS

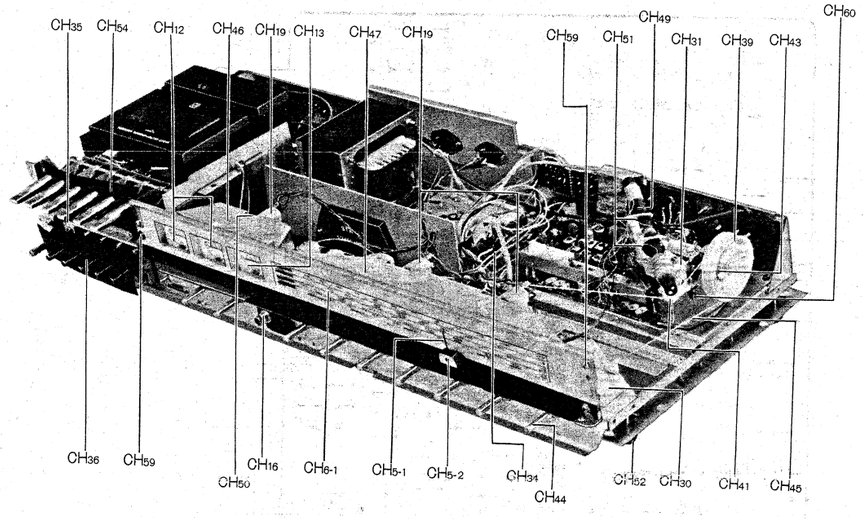


Fig. 20

■ CABINET PARTS LOCATIONS

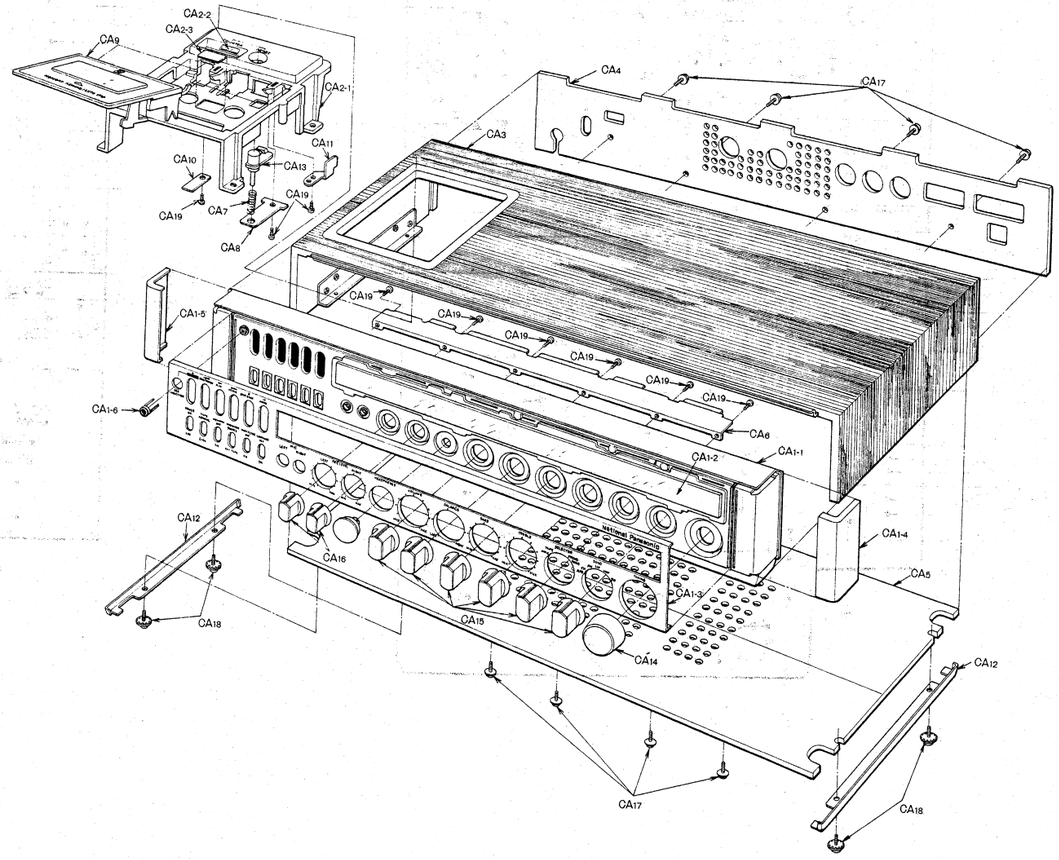


Fig. 21

■ ALIGNMENT INSTRUCTIONS

HEAD AZIMUTH ALIGNMENT		
CIRCUIT	ADJUSTMENT	REMARKS
R/P HEAD	1. Play the test tape C-AA. 2. Adjust the azimuth screw, as shown in fig. 18.	Adjust for maximum output at speaker.

EQUIPMENT REQUIRED

* Stereo Modulator.....Connect Stereo Modulator output to EXT. Mod. terminal of signal generator.
  Modulation Rate of 19 kHz Pilot Signal.....10%.
* Signal Generator.....Modulation Rate by L+R Signal.....27% (Alignment Step 2)
  Output Level.....60 dB
  Frequency.....Approximately 98 MHz
* Oscilloscope
* VTVM
* Dummy Antenna
* Low Pass Filter

Notes: 1. When aligning, remove line cord antenna attached to External FM Antenna terminal.
2. When aligning, set $VR_{301, 302}$ as illustrated in figure below.

$VR_{301, 302}$

CONTROL SETTING AND PROCEDURE

1. Set selector to FM Auto.
2. Set bass and treble control to center.
3. Set balance control to center.
4. Set power source voltage to 115, 200, 220 or 240 volts AC.
6. Set variable capacitor to approximately 98 MHz.
5. Set volume control to audible level of speaker sound.

	EQUIPMENT CONNECTIONS					
	SIGNAL GENERATOR	VTVM	OSCIL-LOSCOPE	ELECTRONIC COUNTER	ADJUSTMENT	REMARKS
	PILOT CIRCUIT ALIGNMENT					
(1)	Connect to EXT FM antenna terminal through dummy antenna.	—	—	Connect to point TP5, Common to chassis.	VR_{301} (VCO Control)	Adjust VR_{301} for 19 kHz (±50 Hz) of electronic counter reading.
	SEPARATION ALIGNMENT					
(2)	〃	Connect across speaker jack. (Left Side).	Connect to terminals of VTVM.	—	VR_{302} (Separation Control)	Adjust VR_{302} for the minimum indication on VTVM from the left side output when the right side of Stereo modulator is modulated.

NOTE

In the review operation, it is necessary to depress the rewind/review lever firmly enough to review the tape, because your insufficient force of depressing the lever can continue to stop the tape.
The reviewing tape-speed and sound depend on the strength of force given to the rewind/review lever.

■ CHASSIS PARTS LOCATIONS

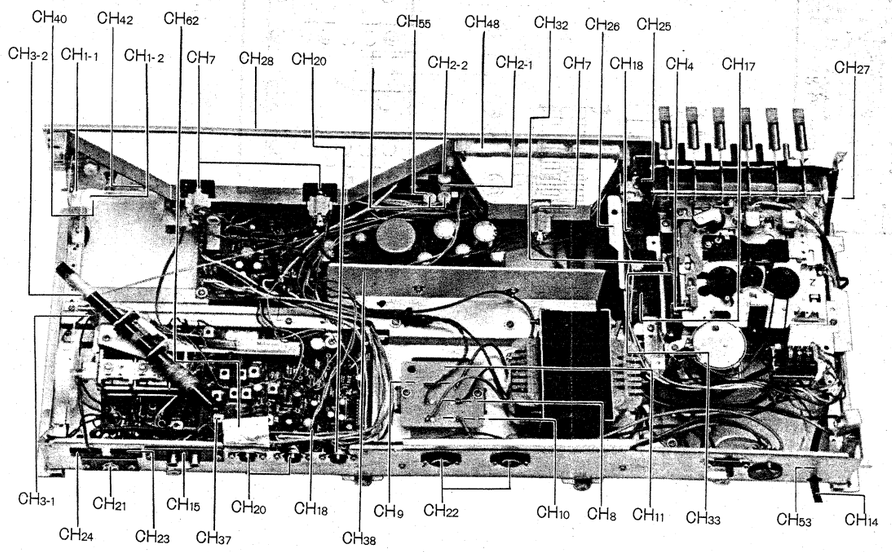

CH40 CH42 CH62 CH55 CH48 CH32 CH26 CH25
CH3-2 CH1-1 CH1-2 CH7 CH28 CH20 CH2-2 CH2-1 CH7 CH18 CH4 CH17 CH27
CH3-1 CH21 CH15 CH20 CH18 CH9 CH22 CH10 CH8 CH11 CH33 CH53 CH14
CH24 CH23 CH37 CH38

Fig. 19

■ CHASSIS PARTS LOCATIONS

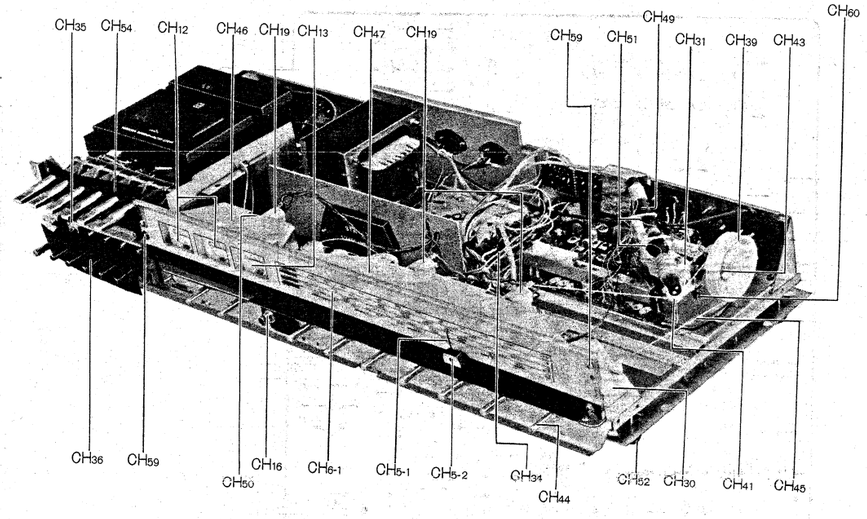


Fig. 20

■ CABINET PARTS LOCATIONS

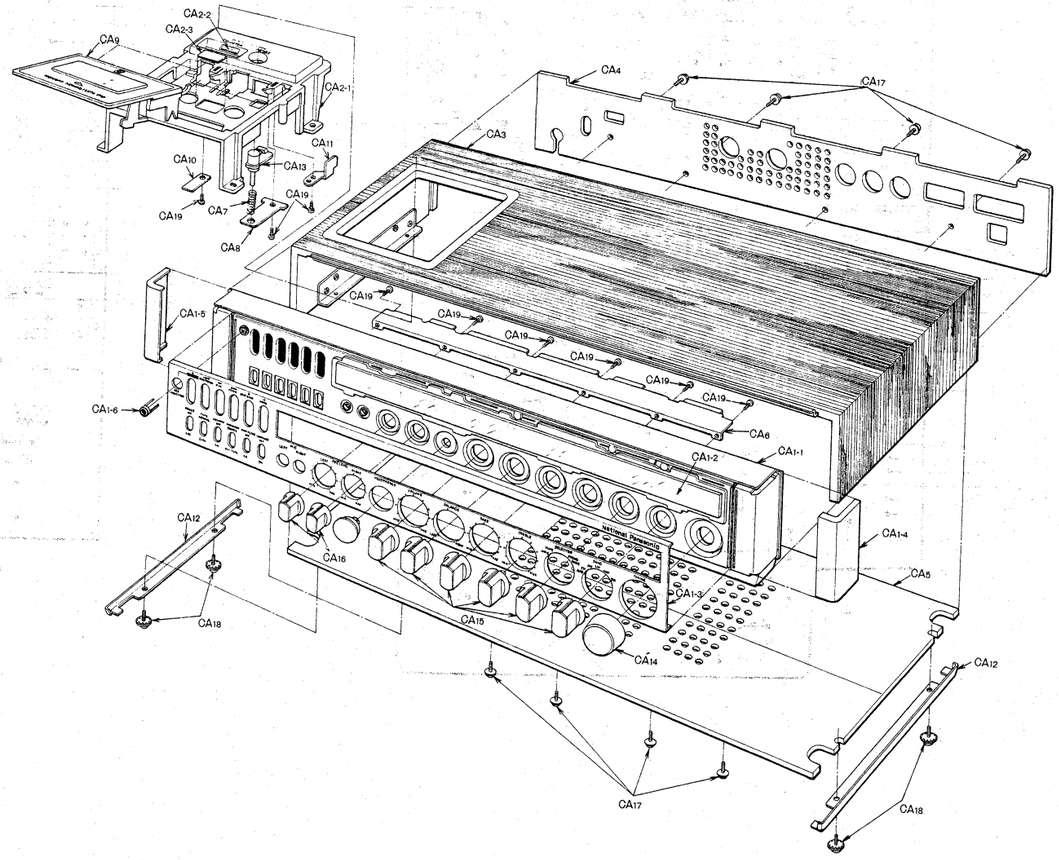


Fig. 21

Ref. No.	Part No.	Part Name & Description	Per Set		Remarks
S5,S12-1~S12-2, S13-1~S13-2	RST20YS-H	Switch, Memory Rewind, High Filter & Loudness	3		○X
S10-1~S10-3	RSR4D01Z-H	Switch, Selector	1		○X
S14	ESE3715	Switch, Voltage Selector	1		X SAFETY
S15	RST2B03ZS-J	Switch, Power	1		○X SAFETY
		RESISTORS			
R711,712	**ERD25TJ4R7**	4.7Ω, 2/5 Watt, ±5%, Carbon	2		Z
R108,401	**ERD25TJ100**	10Ω, 2/5 Watt, ±5%, Carbon	2		Z
R431	**ERD25TJ220**	22Ω, 2/5 Watt, ±5%, Carbon	1		Z
R430	**ERD25TJ330**	33Ω, 2/5 Watt, ±5%, Carbon	1		Z
R110,205,902	**ERD25TJ470**	47Ω, 2/5 Watt, ±5%, Carbon	3		Z
R551,552	**ERD25TJ101**	100Ω, 2/5 Watt, ±5%, Carbon	2		Z
R405,406	**ERD25TJ121**	120Ω, 2/5 Watt, ±5%, Carbon	2		Z
R203,705,706	**ERD25TJ151**	150Ω, 2/5 Watt, ±5%, Carbon	3		Z
R102,303,441 442	**ERD25TJ221**	220Ω, 2/5 Watt, ±5%, Carbon	4		Z
R111,202,204 227,443,444	**ERD25TJ331**	330Ω, 2/5 Watt, ±5%, Carbon	6		Z
R207,222,505 506,901	**ERD25TJ681**	680Ω, 2/5 Watt, ±5%, Carbon	5		Z
R104,206,308 413,414,432 509,510,905	**ERD25TJ102**	1KΩ, 2/5 Watt, ±5%, Carbon	9		Z
R415,903,906	**ERD25TJ152**	1.5KΩ, 2/5 Watt, ±5%, Carbon	3		Z
R402,541,542	**ERD25TJ222**	2.2KΩ, 2/5 Watt, ±5%, Carbon	3		Z
R304,307,449 450	**ERD25TJ332**	3.3KΩ, 2/5 Watt, ±5%, Carbon	4		Z
R103,212,219 305,306,519	**ERD25TJ472**	4.7KΩ, 2/5 Watt, ±5%, Carbon	6		Z
R302,515,516 527,528	**ERD25TJ682**	6.8KΩ, 2/5 Watt, ±5%, Carbon	5		Z
R1,201,209, 210,221,404 411,412,421 422,445,446 511,512,537 538,539,540 543,544,545 546,549,550 707,708	**ERD25TJ103**	10KΩ, 2/5 Watt, ±5%, Carbon	26		Z
R224,419,420 425,426,433 434,447,448 553,554,555 556	**ERD25TJ153**	15KΩ, 2/5 Watt, ±5%, Carbon	13		Z
R107	**ERD25TJ183**	18KΩ, 2/5 Watt, ±5%, Carbon	1		Z
R223,416,417 418,427,428	**ERD25TJ223**	22KΩ, 2/5 Watt, ±5%, Carbon	6		Z
R225,435,436 525,526	**ERD25TJ333**	33KΩ, 2/5 Watt, ±5%, Carbon	5		Z
R208,533,534	**ERD25TJ473**	47KΩ, 2/5 Watt, ±5%, Carbon	3		Z
R105,220,311 557,558,563 564	**ERD25TJ683**	68KΩ, 2/5 Watt, ±5%, Carbon	7		Z
R101,106,217	**ERD25TJ104**	100KΩ, 2/5 Watt, ±5%, Carbon	7		Z

Ref. No.	Part No.	Part Name & Description	Per Set		Remarks
218,501,502 709					
R407,408,409 410,423,424 503,504,507 508,513,514 529,530,531 532,561,562	**ERD25TJ154**	150KΩ, 2/5 Watt, ±5%, Carbon	18		Z
R109,211,703 704	**ERD25TJ224**	220KΩ, 2/5 Watt, ±5%, Carbon	4		Z
R701,702	**ERD25TJ334**	330KΩ, 2/5 Watt, ±5%, Carbon	2		Z
R215,559,560	**ERD25TJ474**	470KΩ, 2/5 Watt, ±5%, Carbon	3		Z
R216,309,310 437,438,439 440,517,518	**ERD25TJ684**	680KΩ, 2/5 Watt, ±5%, Carbon	9		Z
R535,536,547 548	**ERD25TJ155**	1.5MΩ, 2/5 Watt, ±5%, Carbon	4		Z
R213,214	**ERD25TJ471**	470Ω, 2/5 Watt, ±5%, Carbon	2		Z
R713,714	**ERC12GK331**	330Ω, 1/2 Watt, ±10%, Solid	2		Z
R521,522	**ERC12GK225**	2.2MΩ, 1/2 Watt, ±10%, Solid	2		Z
R523,524	**ERC12GK475**	4.7MΩ, 1/2 Watt, ±10%, Solid	2		Z
R429,710	**ERG1ANJ101**	100Ω, 1Watt, ±5%, Metal Oxide	2		Z
R904	**ERG2ANJ681**	680Ω, 2Watt, ±5%, Metal Oxide	1		○Z
R907	ERF10HMJ331	330Ω, 10Watt, ±5%, Wire	1		○Z SAFETY
		CAPACITORS			
C113	ECCD1H010C	1PF, 50WV, ±0.25PF, Ceramic	1		Z
C110	ECCD1H040C	4PF, 50WV, ±0.25PF, Ceramic	1		Z
C109,115,116,211	ECCD1H070DC	7PF, 50WV, ±0.5PF, Ceramic	4		Z
C106,112,202	ECCD1H100KC	10PF, 50WV, ±10%, Ceramic	3		Z
C101	ECCD1H120KC	12PF, 50WV, ±10%, Ceramic	1		Z
C108,235,236 543,544	ECCD1H220KC	22PF, 50WV, ±10%, Ceramic	5		Z
C403,404	ECCD1H270KC	27PF, 50WV, ±10%, Ceramic	2		Z
C201	ECCD1H560K	56PF, 50WV, ±10%, Ceramic	1		Z
C102,219,225 433,434,703 704	ECCD1H101K	100PF, 50WV, ±10%, Ceramic	7		Z
C204	ECCD1H050CC	5PF, 50WV, ±0.25PF, Ceramic	1		Z
C539,540	ECCD1H331K	330PF, 50WV, ±10%, Ceramic	2		Z
C114	ECCD1H150KV	15PF, 50WV, ±10%, Ceramic	1		○Z
C220	ECCD1H181K	180PF, 50WV, ±10%, Ceramic	1		Z
C107	ECKD1H102PF	0.001μF, 50WV, ±10%, Ceramic	1		Z
C203,215,237	ECKE1H103PF	0.01μF, 50WV, ±10%, Ceramic	3		Z
C103,104,117 212,214,222 223,227,229 232,234,310 311,509,510 513,514,519 520	ECKE1H223PF	0.022μF, 50WV, ±10%, Ceramic	19		Z
C217,401,402	ECKE1H333PF	0.033μF, 50WV, ±10%, Ceramic	3		Z
C231,411,412 515,516	ECKD1H471MD	470PF, 50WV, ±20%, Ceramic	5		Z
C111,423,424 425,426	ECKE1H102MD	0.001μF, 50WV, ±20%, Ceramic	5		Z

Ref. No.	Part No.	Part Name & Description	Per Set		Remarks
C230	ECKE1H152MD	0.0015μF, 50WV, ±20%, Ceramic	1		Z
C525,526	ECKE1H222MD	0.0022μF, 50WV, ±20%, Ceramic	2		Z
C419	ECKE1H332MD	0.0033μF, 50WV, ±20%, Ceramic	1		Z
C307,308,427 428,507,508 535,536	ECKE1H103MD	0.01μF, 50WV, ±20%, Ceramic	8		Z
C216	ECKE1H223MD	0.022μF, 50WV, ±20%, Ceramic	1		Z
C105	ECKE1H102MDA	0.001μF, 50WV, ±20%, Ceramic	1		Z
C1	ECKDDS101MB	100PF, 5KWV, ±20%, Ceramic	1		Z
C505,506,523 524,527,528	ECFVD333MDD	0.033μF, 25WV, ±20%, Semi-Conductor	6		Z
C302	ECFVD473MDD	0.047μF, 25WV, ±20%, Semi-Conductor	1		Z
C435,436	ECFVD683MDD	0.068μF, 25WV, ±20%, Semi-Conductor	2		Z
C420	ECFVD104MDD	0.1μF, 25WV, ±20%, Semi-Conductor	1		Z
C713,714	ECQG05473MZ	0.047μF, 50WV, ±20%, Polyester	2		Z
C908	ECQG05104MZ	0.1μF, 50WV, ±20%, Polyester	1		Z
C409,410	ECQG05222MZ	0.0022μF, 50WV, ±20%, Polyester	2		Z
C209	ECMS05161J-H	160PF, 50WV, ± 5%, Styrol	1		Z
C206	ECQS1221JZ	220PF, 125WV, ± 5%, Styrol	1		Z
C207	ECQS1361JZ	360PF, 125WV, ± 5%, Styrol	1		Z
C405	ECQS1471JZ	470PF, 125WV, ± 5%, Styrol	1		Z
C303	ECQS05152KZ	1500PF, 50WV, ±10%, Styrol	1		Z
C208	ECQS05392KZ	3900PF, 50WV, ±10%, Styrol	1		Z
C406	ECQS05562KZ	5600PF, 50WV, ±10%, Styrol	1		Z
C533,534,537 538	**ECEA50ZR1**	0.1μF, 50WV, Electrolytic	4		Y
C305	**ECEA50ZR22**	0.22μF, 50WV, Electrolytic	1		Y
C441,442,437 438	**ECEA50ZR33**	0.33μF, 50WV, Electrolytic	4		Y
C304,701,702	**ECEA50ZR47**	0.47μF, 50WV, Electrolytic	3		Y
C213,218,221 312,503,504	**ECEA16V47**	47μF, 16WV, Electrolytic	6		Y
C233	**ECEA10V100**	100μF, 10WV, Electrolytic	1		Y
C902	**ECEA16V100**	100μF, 16WV, Electrolytic	1		Y
C210,228,417 418	**ECEA16V10**	10μF, 16WV, Electrolytic	4		Y
C306,414,443 511	**ECEA16V220**	220μF, 16WV, Electrolytic	4		Y
C905	**ECEA16V470**	470μF, 16WV, Electrolytic	1		Y
C224,407,408 421,422	**ECEA50V4R7**	4.7μF, 50WV, Electrolytic	5		Y
C413,709,710 901,904	**ECEA35V47**	47μF, 35WV, Electrolytic	5		Y
C705,706	**ECEA35V220**	220μF, 35WV, Electrolytic	2		Y
C907	**ECEA35V4R7**	4.7μF, 35WV, Electrolytic	1		Y
C707	**ECEA35V10**	10μF, 35WV, Electrolytic	1		Y
C711,712	**ECEA35V1000**	1000μF, 35WV, Electrolytic	2		Y
C301,309,429 430,431,432 439,440,501 502,517,518 521,522,529 530,531,532 541,542	**ECEA50V1**	1μF, 50WV, Electrolytic	20		Y
C708	**ECEA50V100**	100μF, 50WV, Electrolytic	1		Y
C906	ECET50R3300S	3300μF, 50WV, Electrolytic	1		OY
C226	**ECEA50V2R2**	2.2μF, 50WV, Electrolytic	1		Y

Ref. No.	Part No.	Part Name & Description	Per Set		Remarks
C903	**ECEA25V100**	100μF, 25WV, Electrolytic	1		Y
		CABINET			
	RYPE7860LBSX	Escutcheon Assembly	1		OX
CA1-1	(Not Available, Order RYPE7860LBSX)	Escutcheon Only	(1)		
CA1-2		Transparent Cover, Dial	(1)		
CA1-3	RGK689Z	Indicating Plate, National Panasonic Mark	1		OY
CA1-4	RGX744Z	Ornament, Right Side	1		OY
CA1-5	RGX744Y	Ornament, Left Side	1		OY
CA1-6	RGX692Y	Ornament, Rec Indicator	1		OY
	RYE1E7810M	Tape Deck Cover Assembly	1		OX
CA2-1	(Not Available, Order RYE1E7810M)	Cover Only	(1)		
CA2-2		Transparent Cover, Counter	(1)		
CA2-3	RHP567B	Sheet, Cassette Tape	1		Z
CA3	RKM404ZSH	Top Cover Assembly	1		OX
CA4	RKU240Z	Rear Cover	1		OX
CA4	RKU240Y	Rear Cover (Only for Italy)	1		OX
CA5	RKU241Z	Bottom Cover	1		OX
CA6	RUL477Z	Bracket, Escutcheon	1		OZ
CA7	RUS287Z	Spring, Reset Button	1		OY
CA8	RME124Z	Bracket, Reset Button	1		OZ
CA9	RKE9027Z	Cassette Lid	1		OY
CA10	RUL471Z	Bracket, Cassette Lid (Left)	1		OZ
CA11	RUL475Z	Bracket, Cassette Lid (Right)	1		OZ
CA12	RKE194Z	Bracket, Bottom Cover	2		OZ
CA13	RBC107Z	Button, Reset	1		OY
CA14	RBN360Z	Knob, Tuning	1		OX
CA15	RBN361Z	Knob, Volume, Balance, Bass, Treble Selector & Band	6		OX
CA16	RBN366Z	Knob, Rec Level (Right, Left)	2		OX
CA17	XTW3+8F	Screw, Rear & Bottom Cover M'tg	8		Z
CA18	XYNR4+F12S	Screw, Bottom Cover M'tg	4		Z
CA19	XTN3+8C	Screw, Bracket (RUL477Z, RUL471Z, RUL475Z, RME124Z) M'tg	9		Z
		CHASSIS			
	RXE1E7860LBS	Bracket Assembly (Right Side), Pulley Shaft	1		OZ
CH1-1	(Not Available, Order RXE1E7860LBS)	Bracket Only	(1)		
CH1-2		Shaft, Pulley	(2)		
	RXE2E7860LBS	Bracket Assembly (Left Side), Pulley Shaft	1		OZ
CH2-1	(Not Available, Order RXE2E7860LBS)	Bracket Only	(1)		
CH2-2		Shaft, Pulley	(1)		
CH2-3		Shaft, Pulley	(2)		
	RXE3E7860LBS	Bracket Assembly (Tuning Capacitor M'tg), Pulley Shaft	1		OZ

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
CH3-1	Not Available, Order RXE3E7860LBS	Bracket Only	(1)	
CH3-2		Shaft, Pulley	(1)	
CH4	RXE3E7810M	Mechanism Assembly, Cassette Lid	1	OZ
	RYE2E7810M	Pointer Assembly	1	OZ
CH5-1	Not Available, Order RYE2E7810M	Pointer Only	(1)	
CH5-2		Diode	(1)	
	RYDE7860LBSX	Dial Scale Assembly	1	OZ
CH6-1	Not Available, Order RYDE7860LBSX	Dial Scale Only	(1)	
		Smoked Glass	(1)	
CH7	XAMR56S	Pilot Lamp, Dial Scale & Meter Light, 12V, 0.15A	3	OX
CH8	XBA2C40TRO	Fuse, 4A (F2)	1	OX SAFETY
CH9	XBA2C08TRO	Fuse, 800mA (F1)	1	X SAFETY
CH10	XBA2C16TRO	Fuse, 1.6A (F4)	1	OX SAFETY
CH11	RJF16Z	Holder, Fuse	1	OY SAFETY
CH12	RSM1513Z-K	Meter, VU	2	OX
CH13	RSM1513Y-K	Meter, Tuning	1	OX
	RJJ19Z-C	Jack, Microphone	2	Y
CH14	SJA88	Power Cord, AC	1	Y SAFETY
CH15	RJF3226	Jack Board, Phone IN	1	Y
CH16	SJJ84	Jack, Headphones	1	Y
CH17	RJP137Z	Plug (3 Terminals)	7	Z
	RJP107Z	Plug (7 Terminals), Deck	1	Z
CH18	RJS253Z-X	Socket, Rec Indicator, Meter & Mic Jack	4	Z
CH19	RJS205Z	Socket, Dial & Meter Lamp	3	Z
	RJT462Z-X	Terminal, Socket	10	Z
CH20	RJS113Z-H	Jack, PHONO IN, AUX IN, REC/PB	3	OY
CH21	RJF1059Z	Terminal, GROUND	1	OZ
CH22	RJS18A-L	Jack, SPEAKERS	2	OY
CH23	RJS55A-L	Jack, AM ANT	1	OY
CH24	RJS56A-L	Jack, FM ANT	1	OY
CH25	RUL484ZS	Bracket, Tape Deck (Small)	1	OZ
CH26	RUL465Z	Bracket, Tape Deck (Large)	1	OZ
CH27	RUL441Z	Lever, Rec Switch	1	OZ
	RUL459Z	Bracket, Mic Jack	1	OZ
CH28	RUL463Z	Bracket, Dial Scale	1	OZ
CH29 (Fig.3)	RUL476ZS	Bracket, Bottom Cover	2	OZ
CH30	RUM34Z	Bracket, Escutcheon	1	OZ
CH31	RMA153Z	Bracket, Ferrite Antenna	1	OZ
CH32	RUL491Z	Bracket, Spring (RDS5171Z)	1	OZ
CH33	RDS5171Z	Spring, Eject	1	OY
CH34	SUS116	Spring, Pointer Lead	1	Y
CH35	RUV427Z	Insulator, Power Switch	1	OZ
CH36	RUV445Z	Cover, Power, Tape & etc Switch	1	OZ
CH37	RMC171Y	Shield Cover, IC201	1	OZ
CH38	RMY96Z	Heat Sink, Power IC	1	OZ
CH39	SDD46K	Drum, Dial	1	OY
CH40	RDR23-1	Pulley, Dial	1	Y
CH41	RDR20-3	Pulley, Dial	5	Y
CH42	RDE3	Guide, Dial Cord	1	Z
CH43	RDS4090A	Spring, Dial	1	Y
CH44	RDT2304Z	Tuning Shaft	1	OY

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
CH45	RDZ05A	Cord, Dial (500m)	1Roll	Y
CH46	RDH117Z	Cover, Reflector Plate	1	OZ
CH47	RDH118Z	Reflector Plate, Dial Scale	1	OZ
	RDH125Z	Reflector Plate, Meter	1	OZ
CH48	RKE204Z	Smoked Glass, Meter	1	OZ
CH49	RHG316A	Rubber, Ferrite Antenna Bracket	1	Z
CH50	RHG328Z	Rubber, Meter Lamp Socket	1	Z
CH51	RHG109	Rubber, Ferrite Antenna	2	Z
CH52	RHG326Z	Foot, Chassis	4	OZ
	RHR823Z	Cover, Meter Reflector Plate	1	OZ
CH53	RHR550A	Clamper, AC Cord	2	Z SAFETY
CH54	RHS484Z	Cover, RECORD, REWIND & etc.	1	OZ
CH55	RNW150-2	Washer (Nylon), Pulley	7	Z
CH56 (Fig.2)	XTN3+F12RS	Red Screw, Top Cover M'tg	2	Z
CH57 (Fig.3,4)	XYN3+10CR	Red Screw, Escutcheon M'tg	5	Z
CH58 (Fig.3)	XTN3+12CR	Red Screw, Escutcheon M'tg	2	Z
CH59	XTW3+8F	Screw, Dial Scale M'tg	2	Z
	XNG3CS	Nut, Heat Sink M'tg	2	Z
	XNS8	Nut, Tuning, Band, Selector, Treble, Bass, Balance, Volume & Rec Level M'tg	9	Z
	XNG4BS	Nut, Power Transformer M'tg	4	Z
CH60	XYN3+C6S	Screw, Tuning Capacitor M'tg	2	Z
	XYNR4+F12S	Screw, Power Transformer M'tg	4	Z
	XNT4	Washer, Power Transformer M'tg	4	Z
	XWV8	Washer, Tuning, Band, Selector M'tg	3	Z
CH61 (Fig.5,6)	XTN3+8C	Screw, MIC Jack Bracket, Tape Deck & Tape Deck Cover M'tg	9	Z
	XTN3+16C	Screw, Foot M'tg	4	Z
CH62	RUV447Z	Shield Cover, PHONO IN Jack	1	OZ
	RHG438Z	Rubber, Meter	3	OZ
CH63 (Fig.3)	XTN3+8CR	Red Screw, Escutcheon M'tg	2	Z
	RUL475Z	Bracket, Mechanism Assembly	1	Z
	RHG914-1	Rubber, Bracket (RUL475Z, RUL496Z)	2	Z
	RUL496Z	Bracket, Meter	1	Z
	XWA3B	Washer, Escutcheon M'tg	2	Z
	RMC426Z	Shield Cover	1	OZ
ACCESSORY				
A1	RJN5A	Cassette Tape	1	X
PACKING				
P1	RPH266Z	Soft Cover	1	Z
P2	XZB80X55A04	Polyethylene Cover	1	OZ
P3	RPN2166Z	Pad, Upper Side	1	OZ
P4	RPN2164Z	Pad, Lower Side	1	OZ
	RPN9149Z	Pad Complete	1	OZ
P5	Not Available, Order RPN9149Z	Pad, Left Side	(1)	
P6		Pad, Right Side	(1)	
P7	RPG1575Z	Packing Case	1	OY

Ref. No.	Part No.	Part Name & Description	Per Set		Remarks
P8	RQX5971Z	Instruction Book	1		○Y
		TAPE DECK			
	RJD4050ZS	Tape Deck Assembly	1		○X
1	RMQ690Z	Screw, Flywheel Shaft Holder M'tg	2		○Z
2	RMQ691Z	Terminal, Earth	1		○Z
3	RMQ692Z	Holder, Flywheel Shaft	1		○Z
4	XSN2+4	Screw, R/P Head & Erase Head M'tg	3		Z
5	XSN2+6	Screw, R/P Head M'tg, Azimuth Adjusting & Leaf Switch M'tg	2		Z
6	RMQ694Z	Washer, R/P Head	1		○Z
7	RMQ116A	Spring, R/P Head	1		Y
8	RJH12Y	R/P Head	1		○X
9	RME70A	Lead Clamper, R/P Head & Tape Counter	2		Z
10	RJH21Z	Erase Head	1		○X
11	RMQ695Z	R/P Head Lead Assembly (Brown) 367mm	1		○Y
12	RMQ741Z	R/P Head Lead Assembly (Gray) 300mm	1		○Y
13	RMQ742Z	Erase Head Lead Assembly	1		○Y
14	RMQ763Z	Tape Counter	1		○X
15	RMQ744Z	Bracket, Tape Counter	1		○Z
16	XYN26+C4	Screw, Tape Counter Bracket, Flywheel Retainer & etc. M'tg	5		Z
17	XYN3+F6S	Screw, Tape Counter M'tg	2		Z
18	XUC4FW	Circlip, Brake, Auto-Stop Sensing Lever Assembly M'tg	2		Z
19	RMQ701Z	Brake	1		○Z
20	RMQ745Z	Belt, Tape Counter	1		○X
21	RMQ309A	Washer, Reel Table M'tg	2		Z
22	RMQ699Z	Reel Table	2		○Z
23	RMQ700Z	Spring, Reel Table	2		○Y
24	RMQ764Z	Spring, Head Base Assembly Lever	1		○Y
25	RMQ513Z	Spring, Pinch Arm Assembly	1		Y
26	XUC3FW	Circlip, Pinch Arm Assembly, Fast Forward Idler Assembly & Head Base Assembly Bracket M'tg	3		Z
27	RMQ765Z	Lever, Head Base Assembly	1		○Y
28	RMQ697Z	Lever Assembly, Auto-Stop Sensing	1		○Y
29	RMQ766Z	Head Base Assembly	1		○Z
30	RMQ539Z	Pinch Arm Assembly	1		Y
31	RMQ703Z	Lever, Safety	1		○Y
32	RMQ321A	Spring, Safety Lever	1		Y
33	RMQ747Z	Leaf Switch	1		○X
34	RMQ762Z	Bracket, Button Mechanism Assembly	1		○Z
35	XYN26+C5	Screw, Button Mechanism Assembly & Bracket (RMQ762Z) M'tg	3		Z
36	XSN26+5	Screw, Button Mechanism Assembly	1		Z
37	RMQ748Z	Button Mechanism Assembly	1		○X
38	RMQ749Z	Button, RECORD	1		○X
39	RMQ750Z	Button, REWIND, PLAY, FF, STOP/EJECT & PAUSE	5		○X

Ref. No.	Part No.	Part Name & Description	Per Set		Remarks
40	RMQ604Z	Retainer, Cassette Tape	1		Z
41	MHI5R2CDR	DC Motor	1		○X
42	RMQ709Z	Motor Pulley	1		○X
43	RMQ620Z	Cushion, DC Motor	2		Z
44	RMQ710Z	Cushion, DC Motor Belt	1		○Z
45	RMQ171A	Rubber, DC Motor	2		Z
46	RMQ615Z	Spacer, DC Motor	2		Z
47	RMQ616Z	Screw, DC Motor M'tg	2		Z
48	XUC2FW	Circlip, Tension Arm Assembly & etc. M'tg	4		Z
49	RMQ752Z	Lever, Pause	1		○Y
50	RMQ658Z	Lever, Lock	1		Y
51	RMQ712Z	Spring, Lock Lever	1		○Y
52	XYN26+C8	Screw, Pause Lever M'tg	1		Z
53	RMQ713Z	Spacer, Pause Lever	1		○Z
54	RMQ718Z	Screw, Flywheel Shaft Holder M'tg	1		○Z
55	RMQ767Z	Bracket, Head Base Assembly	1		○Z
56	RMQ768Z	Lever, Review	2		○Y
57	RMQ706Z	Washer, Leaf Switch M'tg	1		○Z
58	RMQ707Z	Leaf Switch	1		○X
59	RMQ708Z	Screw, Leaf Switch M'tg	2		○Z
60	RMQ720Z	Spring, Rewind, Record & Leaf Switch Lever	3		○Y
61	RMQ332A	Spring, Play & Stop/Eject Lever	2		Y
62	RMQ755Z	Lever, Rewind	1		○Y
63	RMQ769Z	Lever, Play	1		○Y
64	RMQ770Z	Spacer, Play Lever M'tg	1		○Z
65	RMQ754Z	Lever Assembly, Record	1		○Y
66	RMQ757Z	Lever, Fast Forward	1		○Y
67	RMQ758Z	Lever Assembly, Stop/Eject	1		○Y
68	RMQ726Z	Spring, Stop/Eject Lever Assembly	1		○Y
69	RMQ725Z	Spring, Fast Forward Lever	1		○Y
70	RMQ727Z	Lever, Leaf Switch	1		○Y
71	RMQ337A	Spring, Idler Lever Assembly	1		Y
72	RMQ728Z	Lever Assembly, Idler	1		○Y
73	RMQ729Z	Spacer, Idler Lever Assembly	1		○Z
74	XYN26+C5	Screw, Leaf Switch & Idler Lever Assembly M'tg	2		Z
75	RMQ776Z	Leaf Switch	1		○X
76	RMQ771Z	Leaf Switch Lead Assembly	1		○Y
77	RMQ717Z	Tension Arm Assembly	1		○Z
78	RMQ328A	Spring, Tension Arm Assembly	1		Y
79	RMQ759Z	Washer, Flywheel M'tg	1		○Z
80	RMQ732Z	Belt, DC Motor	1		○X
81	RMQ760Z	Flywheel	1		○X
82	RMQ761Z	Retainer Assembly, Flywheel	1		○Z
83	RMQ734Z	Fast Forward Idler Assembly	1		○Y
84	RMQ736Z	Bracket (Small), Lever	1		○Z
85	RMQ772Z	Bracket (Large), Lever	1		○Z
86	RMQ737Z	Spring, Bracket Lever	1		○Y

RD Ⓟ XG, XI
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